SUREKEY EXAMINATIONS BOARD

PRIMARY SEVEN PLE PREPARATION SET ONE

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	EMIS No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **15 printed pages** altogether
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: **"For Examiners' Use only"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn.No.	**MARKS**	**EXR'S NO.**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

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SECTION A: 40 MARKS

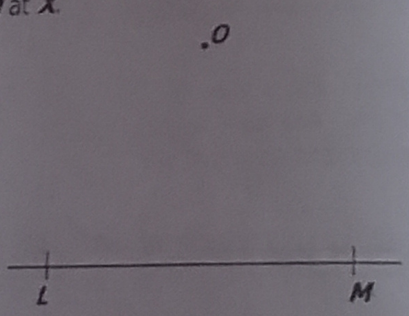
Answer **all** questions in this Section
Questions **1** to **20** carry two marks each

1. Workout: $\frac{1}{3} \times 12$

2. Convert 6.34 kilograms to grams.

3. Workout:
$$\begin{array}{r} 61004 \\ -\ 33422 \\ \hline \\ \hline \end{array}$$

4. Use a pair of compasses and a ruler only to drop a perpendicular line from Point ***O*** to line ***LM*** at ***X***.

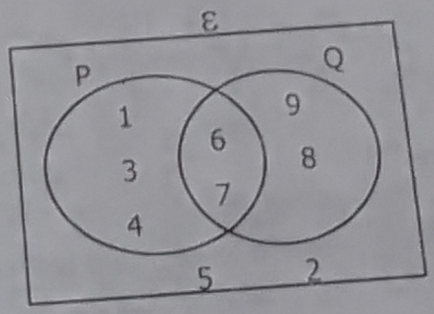


5. Round off 648293 to the nearest ten thousands.

6. On a school assembly, Getrude stood in the 8th position from either side the P.7 girls' line. How many girls were in P.7?

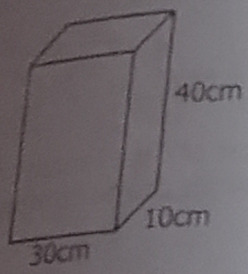
7. At a Forex Bureau, the cost of each Tanzanian Shillings (TZ Sh) is U How many Tanzanian Shillings can be obtained from Ugsh.9600?

8. From the Venn diagram below, find n(Q′).



9. At Light Star Primary School, P.4 and P.6 have 60 and 80 pupils respectively. Find the smallest number of pens the headteacher gave to each classes equally and the remainder to their 7 teachers.

10. On a rainy day, the water tank below was filled to full capacity.



If all the water was collected in small containers of $600cm^3$, how many such containers were obtained from the whole tank?

11. Express $6m^2$ into cm^2.

12. The sum of two numbers is 12. If the first number is twice the second number, find the numbers.

13. Workout: $12\ 1_{three}$
$\times\ 1\ 1_{three}$

14. A canteen attendant sells 2 pancakes at Sh.1,000. How many pancakes does she sell at Sh.12,000?

15. The Electricity Transmission Company wishes to extend electricity from village **A** to village **B** by planting electricity poles at intervals of 250m apart. The distance between the two villages is 5000m. How many electricity poles are needed?

16. If $b = -3$, $c = 4$. Find the value of $b^3 + c$.

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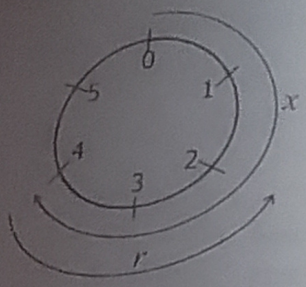
17. Write the mathematical finite statement represented on the dial below.



18. Without actual division, prove whether the next number in the sequence below is a multiple of 3.

99, 103, 106, 110, 113, ...

19. The temperature on top of Mt.Elgon rose from -14°c to 9°c. By how many degrees did it rise?

20. Write the scientific notation form of 0.0045.

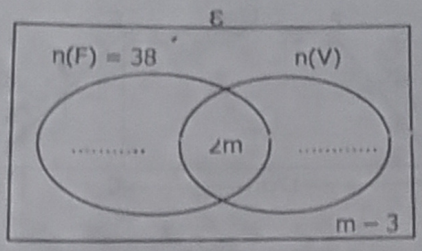
SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets.

21. Primary Four class at Greenhill Academy has 64 boys. 38 of them can Play Football (F), m – 5 can play only Volleyball (V), 2m can play both football and volleyball while m – 3 do not play any of the two games.

(a) Use the above information to complete the Venn diagram below.
(02 Marks)

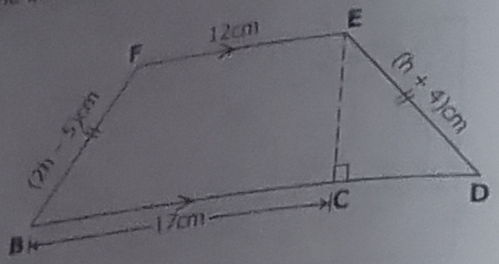


(b) Find the number of boys in the class who are not footballers.
(03 Marks)

22. (a) Workout: $\frac{0.54 \times 0.21}{0.7 \times 0.9}$ (03 Marks)

(b) Write the place value of 7 in the number 45.437. (01 Mark)

23. The figure BCDEF below is an Isosceles trapezium. Study it carefully and answer the questions that follow.



(a) Find the value of **h**. (02 Marks)

(b) Calculate the length marked **CE** in the above figure. (03 Marks)

25. Two business men, Oyirot and Okecho had Sh.400,000 each. Oyirot used all his money to buy a cow which he later sold at Sh.445,000 while Okecho lent all his money at an interest rate of 20% per year for 6 months.

Show which of the two men gained higher from his business. (05 Marks)

26. The fractions below show how Mr. Okello spends his monthly earnings.

$\frac{1}{8}$ - Transport

$\frac{2}{3}$ - Food

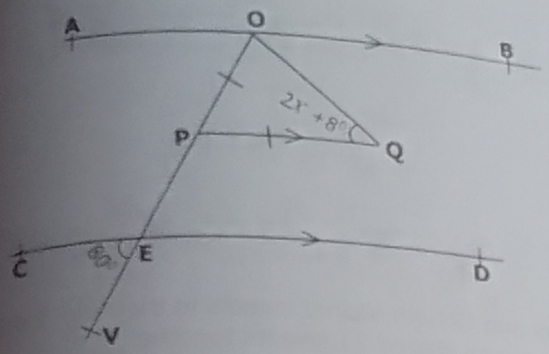
$\frac{1}{6}$ - Fees

?? - Saved

(a) What fraction does Mr.Okello save? (02 Marks)

(b) If he saved Sh.600,000, how much does he earn monthly? (02 Marks)

In the figure below, line **AB** is parallel to line **CD** and **PQ**. **OPQ** is an isosceles triangle and angle **CEV** = 80°. Use it to answer the questions that follow.



(a) Workout the value of x.

(03 Marks)

(b) Determine the size of the angle **BOQ**.

(02 Marks)

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END

28. Solve the inequality, $3(x^2 - 1) + 4 \geq 49$ and hence give the solution set for which x is a composite number. (04 Mark

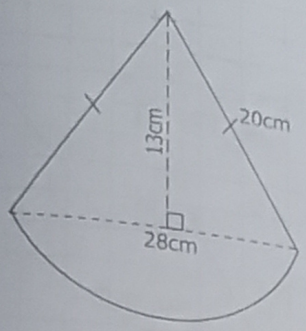
29. Nalweyiso, Akanji and Ocham shared sweets in the ratio 3:4:5 respective
If Nalweyiso and Akanji shared 21 sweets together;

(a) How many sweets did they share altogether? (03 Marks

(b) If Sh.1,200 was used to buy 4 sweets, how much money was spent on the sweets they all shared? (02 Marks)

During a PE lesson, a pupil was made to run 3 laps round the running truck field below.

(Use π as $\frac{22}{7}$)



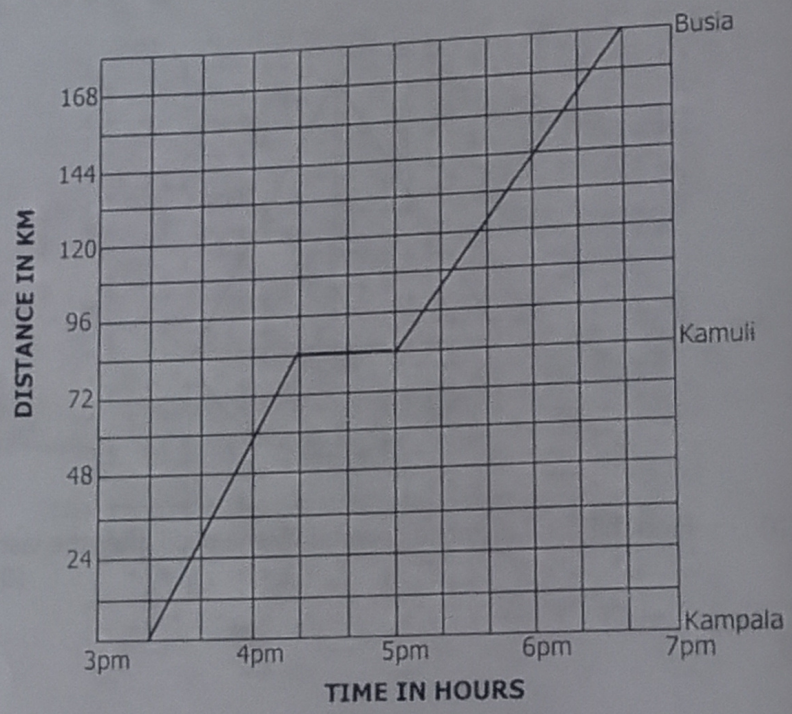
(a) Find the total distance covered by the pupil after the last lap.

(03 Marks)

(b) Workout the area of land occupied by the running truck field.

(03 Marks)

31. The distance – time graph below shows the journey for a taxi that was moving from Kampala to Busia via Kamuli. Study and use it to answer the questions that follow.



(a) How far is Busia from Kamuli? (01 Mark)

(b) Express the departure time of the taxi from Kampala in the 24-hour clock system. (02 Marks)

(c) For how long did the taxi stay at Kamuli? (01 Mark)

(d) Workout the taxi's average speed for the whole journey.
(02 Marks)

32. In a Mathematics Pre-PLE Registration exam, 2 pupils scored 80 marks each. 3 pupils scored 60 marks each, 4 pupils scored a total of 240 marks while 1 pupil scored 90 marks.

(a) Find the marks scored by each of the four pupils in the exam.
(02 Marks)

(b) What was the most frequent mark in the exam? (01 Mark)

(c) Workout the mean mark scored in the exam. (03 Marks)

END

24 (a) Using a ruler, a pencil and a pair of compasses only, construct a rhombus PQRS where PQ = QR = 6cm and angle SPQ = 60°.
(04 Marks)

(b) Measure the length of diagonal PR. .....cm. (01 Mark)